

16M00A03

Madhya Pradesh Medical Science University

First MBBS Examination Aug - Sep 2016

Physiology Paper 1

Time : 3 Hours

Maximum Marks: 50

- Note (a) Attempt all questions in the same serial order.
(b) Draw well labelled diagrams wherever necessary.

- Q1 A 25 year old male has been brought to the hospital emergency room with history of roadside accident. He is semiconscious sweating profusely. His blood pressure is 90/60 mm Hg. Pulse is fast and weak. Answer the following questions on basis of your knowledge of Physiology: 5
- Name the clinical condition (0.5)
 - Explain the physiological basis of the above findings (2.5)
 - Describe the rationale of management (2.0)
- Q2 Describe Tubuloglomerular feedback 5
- Q3 Write short notes on:
- Functional residual capacity 3
 - Haemophilia 3
 - Pulmonary stretch receptors 3
 - Standard limb leads in ECG 3
 - Saltatory conduction 3
 - Mixing movements in GIT 3
 - Functions of polymorphonuclear neutrophils 3
 - Sino aortic reflex 3
 - Erythroblastosis fetalis 3
 - Periodic breathing 3
- Q4 Write in brief:
- What is sinus arrhythmia? 1
 - What is TmG? 1
 - Define Stroke Volume 1
 - Define P_{aO_2} 1
 - Law of intestine 1
 - Define auto antibody 1
 - Define renal threshold 1
 - Name 4 enzymes in pancreatic secretion 1
 - Define $VO_{2\text{ MAX}}$ 1
 - Define Haldane effect 1